

## **STATEMENT REGARDING STATUS AND SUPPORT OF CLAIMS**

Pursuant to 37 CFR §1.173 ( c), the status of all claims is as follows:

1. (pending) An incinerator for burning animal carcasses, comprising:
  - a. an insulated shell including an inner surface and an outer surface;
  - b. a grate, placed horizontally within said insulated shell, so as to divide a space enclosed within said insulated shell into a lower flame chamber and an upper biomass chamber;
  - c. means for introducing said animal carcasses into said upper biomass chamber;
  - d. a burner placed at a first end of said insulated shell and beneath said grate;
  - e. an exhaust stack placed proximate said first end of said insulated shell and positioned so as to vent said upper biomass chamber to a surrounding atmosphere;  
and
  - f. a plurality of channels cut into said inner surface of said insulated shell, wherein said channels are positioned to direct a flame produced by said burner evenly around said inner surface of said shell as said flame proceeds from said lower flame chamber, into said upper biomass chamber, around said animal carcasses, and out said exhaust stack.
  
2. (pending) A device as recited in claim 1 further comprising a blower placed proximate a second end of said insulated shell, and oriented to direct a stream of air against said flame so as to roll said flame over said animal carcasses.

3. (pending) A device as recited in claim 1, wherein a second end of said insulated shell opens into a clean out door, with said door being positioned beneath said grate, and wherein said clean-out door is large enough to allow the removal of waster products from said lower flame chamber.
4. (pending) An incinerator as recited in claim 1, wherein said grate includes a series of vertical grate channels which allow the passage of said flame from said lower flame chamber to said upper biomass chamber through said grate.
5. (pending) An incinerator as recited in claim 1, wherein said means for introducing said animal carcasses into said upper biomass chamber comprises a main hatch opening through said insulated shell, with said main hatch being large enough to admit said animal carcasses.

6. (pending) An incinerator for burning animal carcasses, comprising:
- a. an insulated shell including an inner surface and an outer surface, having a first end and a second end;
  - b. a grate, placed horizontally within said insulated shell, so as to divide a space enclosed within said insulated shell into a lower flame chamber and an upper biomass chamber;
  - c. means for introducing said animal carcasses into said upper biomass chamber;
  - d. a burner placed at said first end of said insulated shell and beneath said grate;
  - e. an exhaust stack placed proximate said first end of said insulated shell and positioned so as to vent said upper biomass chamber to a surrounding atmosphere;  
and
  - f. a blower, positioned proximate said second end of said insulated shell, and oriented to direct a stream of air downward and toward said first end of said insulated shell.
7. (pending) An incinerator as recited in claim 6, wherein said second end of said insulated shell opens into a clean out door, with said clean out door being positioned beneath said grate, and wherein said clean out door is large enough to allow the removal of waster products from said lower flame chamber.
8. (pending) An incinerator as recited in claim 6, wherein said grate includes a series of vertical grate channels which allow the passage of said flame from said lower flame chamber to said upper biomass chamber through said grate.

9. (pending) An incinerator as recited in claim 6, wherein said means for introducing said animal carcasses into said upper biomass chamber comprises a main hatch opening through said insulated shell, with said main hatch being large enough to admit said animal carcasses.
10. (pending) An incinerator for burning animal carcasses, comprising:
- a. an insulated shell including an inner surface and an outer surface, having a first end and a second end;
  - b. a grate, placed horizontally within said insulated shell, so as to divide a space enclosed within said insulated shell into a lower flame chamber and an upper biomass chamber;
  - c. means for introducing said animal carcasses into said upper biomass chamber;
  - d. a burner placed at said first end of said insulated shell and beneath said grate, so that a flame produced by said burner travels through said lower flame chamber and through said grate into said upper biomass chamber;
  - e. an exhaust stack placed proximate said first end of said insulated shell and positioned so as to vent said upper biomass chamber to a surrounding atmosphere;  
and
  - f. a blower, positioned proximate said second end of said insulated shell, and oriented to direct a stream of air against said flame so as to roll said flame over said animal carcasses.

11. (pending) An incinerator as recited in claim 10, wherein said second end of said insulated shell opens into a clean out door, with said clean out door being positioned beneath said grate, and wherein said clean out door is large enough to allow the removal of waster products from said lower flame chamber.
12. (pending) An incinerator as recited in claim 10, wherein said grate includes a series of vertical grate channels which allow the passage of said flame from said lower flame chamber to said upper biomass chamber through said grate.
13. (pending) An incinerator as recited in claim 10, wherein said means for introducing said animal carcasses into said upper biomass chamber comprises a main hatch opening through said insulated shell, with said main hatch being large enough to admit said animal carcasses.

Statement of support, pursuant to 37 CFR §1.173 ( c), for the added claims (6-13):

This reissue application is being filed because it appears that the Applicant, in the originally issued patent, claimed less than was allowable over the prior art. Specifically, all the original claims included the use of flame channels in the walls of the incinerator. Referring to FIG. 7 of the original disclosure, it appears that the Applicant created a novel invention even without the use of the flame channels.

The burner jet **36** and exhaust stack **16** are located proximate a first end of the insulated shell. A secondary stream of air is forced into the insulated shell by blower **24**, which is located proximate the second end of the insulated shell. This secondary stream rolls the flame over the top of the biomass, thereby promoting complete combustion.

The use of the flame channels has certain advantages, as pointed out in the original disclosure. It remains the preferred embodiment. However, the incinerator still functions well even without the flame channels. Through inadvertence, no claim directed to the structure of the burner jet, the exhaust stack, and the blower (in the absence of the flame channels) was presented.

A complete explanation of the effect of adding blower **24** is provided in the original patent at Column 4, Lines 14 - 42.

Respectfully submitted this 17<sup>th</sup> day of Feb., 2004.



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